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SEWAGE AND WATER WORKS CONSTRUCTION, 1963

Public Health Service
Washington, D. C.

July 1964

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SEWAGE AND WATER WORKS CONSTRUCTION 1963

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U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE

Public Health Service

17

SEWAGE AND WATER WORKS CONSTRUCTION 1963

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
Public Health Service
Division of Water Supply and Pollution Control
Washington, D.C. 20201

I

Related Publications

Sewage Treatment Works Contract Awards, 1952–1957
Public Health Service Publication No. 633

Sewage and Water Works Construction, 1957
Public Health Service Publication No. 608

Sewage and Water Works Construction, 1958
Public Health Service Publication No. 673

Sewage and Water Works Construction, 1959 edition
Public Health Service Publication No. 758

Sewage and Water Works Construction, 1960 edition
Public Health Service Publication No. 758

Sewage and Water Works Construction, 1961 edition
Public Health Service Publication No. 758

Sewage and Water Works Construction, 1962 edition
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II

PREFACE

This annual report of "Sewage and Water Works Construction 1963" is published as one part of the basic data program required and authorized in Public Law 660 (as amended by Public Law 87-88), the Federal Water Pollution Control Act.

The data published herein provide a continuing and ready source of information and reference as to how successfully the national needs in municipal water supply and pollution control are being met through construction of the necessary physical facilities.

This publication also establishes important year-to-year cost trends in the national economic picture in the three types of public works construction involved. Such data are valuable not only to Federal, State and local government authorities and officials responsible for providing water supplies and for controlling pollution, but are also valuable to the building and contracting trades and to the engineering profession.

This report was prepared by Kenneth H. Jenkins, Chief Statistician and Florence G. Simmons, Statistical Assistant, under the direction of Richard S. Green, Sanitary Engineer Director and Chief of the Basic Data Branch, Division of Water Supply and Pollution Control.

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SECTION I—GENERAL PRESENTATION OF SEWAGE AND WATER WORKS CONTRACT AWARDS

A. CONTRACT AWARDS—1963

Contract awards in the sewage and water works field in calendar year 1963 reached a record level of more than $1.6 billion. The total dollar value in millions is broken down as follows:

Sewage treatment	$679.1
Collecting sewers	404.7
Water works	589.8
	1,673.6

Contracts associated with sewage treatment were awarded at a record level, showing a 25 percent increase over the figure for 1962. Both collecting sewer and water works contract awards levels increased moderately in 1963. Annual figures show a 26 percent increase from 1962 figures for collecting sewer contracts, and a 16 percent increase from 1962 figures for water works contracts.

Each of the above totals is based upon an identified and an apportioned figure. The identified contracts are those for which the descriptive information available clearly states a single type of construction. Those contracts that cover more than a single type are called "combination" contracts. These combination contracts are then apportioned to the sewage treatment works, collecting sewers, and water works categories on the basis of known national experience in each of these.

On a constant dollar basis, the total dollar value of contract awards in the sewage and water works fields in 1963 continued to rise to record levels in spite of increases in construction costs. A comparison on a constant dollar basis with current dollars illustrates the effect of these increases. Attention is called to the first note under table 1 which explains the use of new indices to compute constant dollars on a 1957–59 basis.

B. METHOD OF DATA COLLECTION

The contract award data presented in this publication for the year 1963 result from the careful examination of over 25,000 contract notifications in the sewage and water works construction and related fields. All notifications of similar contracts awarded in the same geographical area are checked to reduce the chance of duplication. Certain contracts, primarily those covering sewage treatment plants, are checked and verified by the various State water pollution control agencies.

The data on which this report is based were obtained from:

1. F. W. Dodge Corporation, daily reports on construction in the sewage and water works fields in the 38 Eastern States.
2. Various construction news periodicals, such as, *Construction News Bulletin*, *Pacific Architect and Builder*, *Rocky Mountain Construction*, and *Southwest Builder and Contractor*.

Practically all of the information for the 38 Eastern States is obtained from daily reports of the F. W. Dodge Corp.

The data presented are composed of contracts awarded by municipalities, special districts, other governmental bodies, and various institutions, resorts, recreation centers, etc. A few contracts are included for industries where the cost of such facilities can be readily identified, and where it is possible to ascertain that the facilities are primarily for the disposal of sanitary wastes or for domestic water works facilities.

TABLE 1—*Annual contract awards—sewage treatment works, collecting sewers, and water works—1952–63*

[Millions of dollars]

Year	Sewage treatment		Collecting sewers		Water works		Total	
	Actual	1957–59	Actual	1957–59	Actual	1957–59	Actual	1957–59
1952	137	178	225	296	227	303	589	777
1953	187	231	286	353	283	358	756	942
1954	229	276	244	294	293	353	766	923
1955	291	232	301	345	394	453	986	1,030
1956	354	385	305	331	441	485	1,100	1,201
1957	351	362	247	254	457	481	1,055	1,097
1958	389	385	310	310	419	419	1,118	1,114
1959	349	336	336	320	504	480	1,189	1,136
1960	359	339	339	339	645	597	1,303	1,275
1961	449	419	380	332	573	516	1,402	1,287
1962	545	505	320	291	507	441	1,373	1,237
1963	679	612	405	338	590	500	1,674	1,470

NOTES:

1. Constant dollars on a 1957–59 base were computed as follows: Sewers from PHS Sewer Construction Cost Index (PHS Publication 1132), sewage treatment a composite 45 percent sewers (Publication 1132) and 55 percent PHS Sewage Treatment Plant Construction Cost Index (PHS Publication 1069); water from *Engineering News-Record* construction cost index changed to a 1957–59 base.

2. The Public Health Service sewage treatment data prior to 1957 are composed of identified contracts only. Beginning with 1957, the figures include an amount apportioned to sewage treatment works from the "combination" contracts.

3. Data on collecting sewers prior to 1957 are obtained by subtracting Public Health Service sewage treatment data from the U.S. Department of Commerce sewer data which includes sanitary and storm sewerage systems as well as sewage treatment works. Beginning with 1957, the data for collecting sewers were assembled by the Public Health Service and do not include storm sewers.

4. The waterworks data prior to 1957 are based on records maintained by the U.S. Department of Commerce. Beginning with 1957, data were obtained by the Public Health Service.

TABLE 2—*Monthly contract awards—sewage treatment works, collecting sewers, and water works—1963*

[Millions of dollars]

Month	Sewage treatment		Collecting sewers		Water works		Total	
	Actual	Cumulative	Actual	Cumulative	Actual	Cumulative	Actual	Cumulative
January	55.8	55.8	28.6	28.6	31.0	31.0	115.4	115.4
February	87.2	143.0	17.9	46.5	33.1	64.1	138.2	253.6
March	47.2	190.2	35.9	82.4	60.4	124.5	143.5	397.1
April	48.5	238.7	28.7	111.1	61.8	186.3	139.0	536.1
May	54.7	293.4	40.0	151.1	64.9	251.2	159.6	695.7
June	54.2	347.6	40.8	191.9	57.5	308.7	152.5	848.2
July	46.6	394.2	52.4	244.3	57.2	365.9	156.2	1,004.4
August	81.4	475.6	27.2	271.5	41.6	407.5	150.2	1,154.6
September	38.9	514.4	37.0	308.5	49.7	457.2	125.6	1,280.2
October	38.6	553.1	33.4	341.9	42.7	499.9	114.7	1,394.9
November	53.4	606.5	27.6	369.5	42.1	542.0	123.1	1,518.0
December	72.6	679.1	35.2	404.7	47.8	589.8	155.6	1,673.6

TABLE 3.—*1963 contract awards by States*

State	Total		Sewage treatment		Sewers		Water		Combinations	
	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars
Alabama	172	27, 404, 907	53	13, 143, 418	38	4, 848, 600	77	9, 193, 965	4	218, 974
Alaska	23	6, 641, 231	3	415, 040	6	1, 551, 842	7	3, 121, 669	7	1, 552, 680
Arizona	73	26, 943, 171	9	10, 128, 674	30	3, 544, 606	30	13, 087, 817	4	182, 078
Arkansas	177	21, 838, 152	37	7, 810, 493	22	2, 156, 305	101	9, 929, 633	17	1, 939, 721
California	1, 039	132, 218, 004	109	19, 115, 909	453	24, 488, 239	433	79, 552, 191	44	9, 061, 665
Colorado	116	24, 724, 236	12	3, 612, 574	18	1, 582, 750	77	18, 008, 088	9	1, 520, 824
Connecticut	111	19, 412, 854	16	4, 172, 028	62	10, 743, 466	26	3, 733, 667	7	763, 639
Delaware	31	2, 993, 444	8	1, 028, 864	7	912, 325	10	443, 142	6	285, 113
District of Columbia	50	16, 293, 422	13	11, 580, 240	23	2, 729, 327	9	1, 146, 213	5	837, 642
Florida	290	53, 084, 486	63	12, 196, 725	73	12, 444, 055	124	16, 255, 292	31	12, 188, 414
Georgia	163	29, 119, 012	35	12, 091, 020	31	3, 163, 714	104	12, 429, 833	13	1, 434, 445
Hawaii	32	12, 503, 648	18	8, 470, 229	8	1, 904, 110	5	1, 569, 509	1	559, 800
Idaho	23	1, 899, 935	12	867, 461	6	870, 578	4	151, 896		
Illinois	531	94, 835, 109	118	49, 976, 667	114	10, 671, 097	249	26, 640, 970	50	7, 546, 375
Indiana	260	30, 448, 575	46	10, 787, 720	106	10, 662, 801	133	8, 244, 062	8	753, 992
Iowa	201	17, 800, 304	68	8, 163, 453	104	4, 253, 273	82	5, 238, 562	7	235, 106
Kansas	251	20, 040, 998	51	5, 907, 001	104	6, 630, 411	94	7, 239, 644	2	164, 942
Kentucky	243	44, 998, 922	58	12, 728, 577	60	9, 755, 224	106	11, 054, 879	21	11, 430, 142
Louisiana	330	55, 461, 812	71	25, 906, 777	40	12, 260, 334	94	8, 766, 346	25	9, 305, 355
Maine	41	5, 411, 918	15	3, 046, 962	12	1, 364, 034	11	455, 771	3	545, 151
Maryland	510	31, 704, 186	29	5, 377, 375	85	5, 244, 393	80	10, 703, 416	316	10, 378, 922
Massachusetts	302	41, 944, 904	43	18, 472, 050	93	8, 477, 322	157	9, 777, 966	9	4, 917, 616
Michigan	446	71, 931, 958	62	14, 882, 564	126	17, 781, 705	208	34, 298, 543	50	4, 970, 146
Minnesota	313	42, 052, 771	55	14, 735, 349	67	7, 431, 408	116	12, 852, 342	75	7, 033, 672
Mississippi	159	18, 108, 270	30	5, 273, 459	25	4, 605, 582	92	6, 242, 279	12	1, 956, 950
Missouri	288	40, 673, 936	59	18, 045, 338	99	6, 705, 445	115	12, 949, 548	15	2, 973, 564
Montana	38	4, 112, 041	8	631, 311	13	2, 379, 119	13	723, 065	4	378, 546
Nebraska	272	9, 772, 037	42	2, 402, 035	124	3, 518, 339	88	3, 326, 866	18	434, 797
Nevada	22	3, 552, 511	3	1, 287, 744	5	197, 709	14	2, 056, 999		
New Hampshire	35	7, 316, 864	16	5, 928, 640	6	754, 868	12	594, 856	1	38, 500
New Jersey	236	43, 126, 203	57	18, 461, 787	91	18, 362, 571	73	4, 078, 187	15	2, 223, 658
New Mexico	72	11, 728, 164	19	3, 293, 960	5	736, 137	37	6, 524, 037	11	1, 170, 130
New York	684	158, 533, 120	77	69, 004, 777	188	36, 087, 843	391	46, 198, 894	28	3, 161, 610
North Carolina	208	25, 205, 962	30	6, 500, 624	24	2, 722, 223	122	12, 545, 289	23	3, 627, 826
North Dakota	68	2, 877, 215	13	530, 963	7	376, 454	27	1, 072, 024	21	871, 844
Ohio	428	65, 845, 531	59	20, 195, 617	129	17, 881, 097	209	23, 454, 904	32	4, 313, 913
Oklahoma	264	28, 690, 478	48	7, 527, 290	45	4, 123, 498	142	13, 397, 244	29	3, 642, 444
Oregon	107	13, 513, 431	33	8, 341, 566	34	2, 734, 069	37	2, 272, 305	3	165, 379
Pennsylvania	538	99, 691, 903	122	31, 263, 773	169	27, 529, 180	210	24, 466, 226	37	16, 432, 714
Puerto Rico	79	8, 304, 824	4	1, 201, 067	11	1, 542, 726	58	3, 273, 306	6	2, 287, 525
Rhode Island	46	17, 285, 381	16	10, 860, 029	14	5, 052, 837	15	1, 264, 515	1	118, 000
South Carolina	119	20, 194, 256	29	6, 098, 152	17	3, 330, 682	69	10, 160, 887	4	604, 535
South Dakota	64	2, 755, 235	11	658, 929	11	515, 992	38	1, 514, 067	4	66, 247
Tennessee	234	36, 529, 519	46	8, 272, 430	58	7, 084, 268	114	18, 965, 429	16	2, 204, 386
Texas	687	74, 102, 300	85	18, 022, 343	137	12, 161, 196	375	33, 332, 234	90	10, 586, 617
Utah	43	11, 010, 605	10	6, 686, 919	9	1, 078, 114	22	2, 955, 569	2	290, 003
Vermont	21	5, 548, 309	15	4, 978, 619			5	375, 238	1	194, 452
Virginia	227	28, 433, 756	47	9, 480, 726	97	10, 046, 500	50	5, 335, 002	33	3, 571, 528
Washington	228	43, 997, 125	32	29, 559, 214	67	5, 525, 484	119	8, 240, 282	8	671, 145
West Virginia	98	13, 661, 866	32	6, 179, 430	13	1, 218, 714	46	4, 687, 706	7	1, 566, 016
Wisconsin	303	48, 830, 646	87	23, 859, 445	108	11, 388, 538	159	8, 999, 022	91	4, 583, 641
Wyoming	19	2, 803, 634	6	330, 855			11	2, 269, 678	2	203, 101
Total	11, 332	1, 673, 574, 052	2, 054	598, 940, 110	3, 253	353, 268, 175	4, 997	565, 161, 224	1, 228	156, 204, 543

TABLE 4.—*1963 contract awards (distributed) by States*

State	Total	Sewage treatment	Sewers	Water
Alabama	27, 604, 957	13, 255, 782	4, 920, 536	9, 228, 537
Alaska	6, 641, 231	1, 211, 782	2, 082, 640	3, 366, 809
Arizona	28, 963, 171	10, 222, 104	3, 604, 503	13, 116, 563
Arkansas	21, 826, 132	8, 805, 941	2, 706, 431	10, 235, 879
California	132, 218, 004	23, 765, 812	27, 469, 330	80, 982, 862
Colorado	24, 724, 236	4, 392, 970	2, 093, 068	18, 248, 198
Connecticut	19, 412, 854	4, 363, 892	10, 994, 711	3, 854, 252
Delaware	2, 669, 444	1, 175, 167	1, 008, 121	486, 156
District of Columbia	16, 293, 422	12, 010, 068	3, 004, 893	1, 278, 461
Florida	53, 084, 486	18, 451, 087	16, 453, 779	18, 179, 620
Georgia	29, 119, 012	12, 827, 091	3, 635, 615	12, 656, 306
Hawaii	12, 503, 646	8, 757, 485	2, 088, 272	1, 657, 891
Idaho	1, 869, 935	867, 481	870, 578	131, 876
Illinois	94, 835, 109	53, 949, 014	13, 153, 691	27, 832, 405
Indiana	30, 446, 575	11, 174, 623	10, 910, 848	8, 362, 104
Iowa	17, 890, 394	8, 284, 095	4, 330, 618	5, 275, 681
Kansas	20, 040, 968	6, 091, 530	6, 893, 673	7, 265, 685
Kentucky	44, 959, 822	18, 593, 840	13, 515, 493	12, 850, 489
Louisiana	55, 661, 812	29, 871, 727	15, 354, 594	10, 235, 491
Maine	5, 411, 918	3, 328, 701	1, 543, 377	541, 840
Maryland	31, 704, 096	10, 703, 215	8, 658, 923	12, 342, 058
Massachusetts	41, 644, 994	20, 985, 513	10, 095, 111	10, 554, 369
Michigan	71, 931, 908	17, 437, 363	19, 419, 736	35, 074, 639
Minnesota	42, 052, 771	18, 344, 607	9, 745, 334	13, 962, 830
Mississippi	18, 168, 270	6, 277, 644	5, 339, 378	6, 551, 248
Missouri	40, 673, 895	19, 571, 193	7, 993, 993	13, 419, 019
Montana	4, 112, 041	825, 556	2, 503, 652	782, 830
Nebraska	9, 772, 037	2, 715, 147	3, 661, 378	3, 395, 512
Nevada	3, 552, 511	1, 297, 744	197, 788	2, 056, 989
New Hampshire	7, 316, 964	5, 948, 396	767, 534	600, 934
New Jersey	43, 126, 203	19, 602, 935	19, 064, 106	4, 459, 262
New Mexico	11, 724, 164	3, 994, 300	1, 121, 064	6, 708, 779
New York	134, 513, 124	70, 667, 125	37, 127, 944	26, 698, 054
North Carolina	25, 393, 962	8, 362, 207	3, 915, 699	13, 116, 056
North Dakota	2, 857, 215	994, 271	663, 272	1, 209, 672
Ohio	65, 845, 531	22, 499, 259	19, 300, 281	24, 135, 992
Oklahoma	28, 660, 478	9, 366, 374	5, 321, 783	13, 972, 319
Oregon	13, 513, 451	8, 426, 451	2, 788, 475	2, 298, 500
Pennsylvania	99, 691, 993	39, 686, 055	32, 935, 187	27, 060, 651
Puerto Rico	8, 304, 624	2, 374, 998	2, 295, 272	3, 634, 494
Rhode Island	17, 260, 381	10, 920, 580	5, 091, 656	1, 283, 145
South Carolina	20, 194, 256	6, 408, 363	3, 529, 561	10, 256, 332
South Dakota	2, 755, 233	886, 923	537, 786	1, 524, 526
Tennessee	30, 526, 519	9, 403, 595	7, 809, 463	19, 313, 461
Texas	74, 102, 390	23, 454, 759	13, 643, 984	35, 003, 647
Utah	11, 010, 995	6, 635, 762	1, 173, 536	3, 091, 395
Vermont	5, 549, 309	5, 078, 400	63, 970	405, 939
Virginia	28, 435, 756	11, 313, 430	11, 223, 455	5, 898, 881
Washington	43, 997, 125	29, 993, 605	5, 747, 276	8, 346, 244
West Virginia	13, 661, 866	6, 998, 410	1, 743, 789	4, 939, 668
Wisconsin	48, 830, 646	26, 211, 494	12, 896, 457	9, 722, 695
Wyoming	2, 803, 634	433, 074	68, 816	2, 301, 744
Total	1, 873, 574, 052	679, 094, 908	404, 558, 092	389, 923, 080

SECTION II—CONTRACT AWARDS—BASIC DATA—1963

This section presents the basic data as compiled; combination projects have not been apportioned. Tables of contract awards by population size groups, contract size groups, drainage basins and States are included.

The population size group tables do not refer to the population served. They represent the size of the community in which each contract was awarded. The population size groups of some contracts were unknown; these contracts consist primarily of schools, hospitals, military bases, and parks. The cumulative percentages shown in these tables are based on the known population groups.

A. SEWAGE TREATMENT WORKS CONSTRUCTION

The sewage treatment works are presented in two categories, namely, NEW PLANT and OTHER. The "NEW PLANT" classification includes stabilization ponds and appurtenances. The "OTHER" category includes replacements and additions to existing treatment plants, interceptors, and outfalls. This category also includes contracts whose costs cannot be separated between "New Plant" and "Other." Therefore, the "Other" classification may include a few new plants.

In 1963 the level of contracts awarded for construction of sewage treatment works in the United States reached a level of $679.1 million. Of this amount $598.9 million covered contracts identified as to specific location and type of construction. The following tables, 5 through 8, inclusive, relate only to contracts individually identified for sewage treatment facilities.

Lists of the locations of contract awards for sewage treatment works are available upon request. Write to Chief, Basic Data Branch, Division of Water Supply and Pollution Control, U.S. Department of Health, Education, and Welfare, Public Health Service, Washington, D.C., 20201.

TABLE 5.—*Contract awards—sewage treatment works construction—1963—by population size groups*

Population size group	Total				New plant				Other [1]			
	Number	Dollars	Cumulative (percent) [2]		Number	Dollars	Cumulative (percent) [2]		Number	Dollars	Cumulative (percent) [2]	
			Number	Dollars			Number	Dollars			Number	Dollars
Unknown population size	110	8,836,681	.....	.....	55	3,591,756	.....	.....	55	5,244,925	.....	.....
Under 500	147	9,985,862	7.6	1.7	84	5,466,551	12.8	2.6	63	4,519,011	4.9	1.2
500-1,000	230	15,960,024	19.4	4.4	120	9,874,349	31.1	7.3	110	6,115,675	13.4	2.8
1,000-2,500	311	39,062,051	35.4	10.9	155	18,564,303	54.8	16.0	156	19,497,748	25.5	8.0
2,500-5,000	240	43,109,436	47.7	18.2	101	20,135,902	70.2	25.5	139	22,973,534	36.3	14.1
5,000-10,000	232	59,056,781	59.6	28.2	59	21,535,363	79.2	35.6	173	37,521,418	49.7	24.0
10,000-25,000	236	71,151,761	71.7	40.3	45	17,297,123	86.1	43.7	191	53,854,638	64.5	38.3
25,000-50,000	113	46,183,133	77.5	47.1	19	12,839,095	89.0	49.7	94	27,344,038	71.9	43.5
50,000-100,000	113	62,487,557	83.3	57.7	21	12,987,448	92.2	55.8	92	49,500,109	78.9	58.6
100,000-250,000	111	82,129,956	89.0	66.5	19	13,532,480	95.1	62.2	92	38,597,476	86.0	68.8
250,000 and over	210	197,837,766	100.0	100.0	31	79,948,483	100.0	100.0	179	117,886,283	100.0	100.0
Total	2,054	598,940,110	.....	.....	710	215,862,155	.....	.....	1,344	383,057,955	.....	.....

[1] Interceptors, outfalls, additions, enlargements, and alterations to plants, etc. [2] Cumulative percentages are based on the known population groups.

TABLE 6.—*Contract awards—sewage treatment works construction—1963—by contract size groups*

Contract size group (dollars)	Total				New plant				Other [1]			
	Number	Dollars	Cumulative (percent)		Number	Dollars	Cumulative (percent)		Number	Dollars	Cumulative (percent)	
			Number	Dollars			Number	Dollars			Number	Dollars
Under 10,000	98	538,080	4.3	0.1	18	96,705	2.5	0.0	70	441,364	5.2	0.1
10,000-25,000	272	4,801,740	17.5	0.9	108	1,945,641	17.7	0.9	164	2,856,099	17.4	0.8
25,000-50,000	331	12,357,265	33.6	3.0	117	4,359,358	34.2	2.9	214	7,997,907	33.3	2.9
50,000-100,000	366	28,663,695	51.4	7.5	149	11,034,243	55.2	8.0	217	15,628,780	49.4	7.0
100,000-250,000	469	74,545,584	74.2	19.9	159	25,173,253	77.6	19.7	310	49,372,331	72.5	19.9
250,000-500,000	267	95,145,655	87.2	35.8	81	28,819,671	89.0	33.0	186	66,325,184	86.3	37.2
500,000-1,000,000	167	119,269,309	95.3	55.7	51	36,889,355	96.2	50.1	116	82,459,954	94.9	58.7
1,000,000-5,000,000	85	162,535,690	99.4	82.8	23	36,742,152	99.4	67.1	62	125,793,538	99.5	91.5
Over 5,000,000	9	103,083,782	100.0	100.0	4	70,871,977	100.0	100.0	5	32,211,965	100.0	100.0
Total	2,054	598,940,110			710	215,882,155			1,344	383,057,955		

[1] Interceptors, outfalls, additions, enlargements, and alterations to plants, etc.

TABLE 7.—*Contract awards—sewage treatment works construction—1963—by drainage basins*

Drainage basin	Total		New plants		Other [1]	
	Number	Dollars	Number	Dollars	Number	Dollars
Northeast	173	60,008,907	44	14,454,850	129	45,954,057
North Atlantic	344	118,388,495	68	66,028,808	176	50,341,687
Southeast	231	70,953,624	78	18,515,315	153	32,438,309
Tennessee River	33	6,249,991	15	2,332,834	18	3,917,157
Ohio River	226	59,080,996	97	21,453,333	129	34,627,663
Lake Erie	33	12,244,537	16	2,935,755	17	9,308,782
Upper Mississippi	292	85,279,271	101	18,266,713	191	67,012,558
Western Great Lakes	121	34,191,703	40	7,105,277	81	27,086,426
Missouri River	172	22,389,328	69	4,887,905	103	17,425,323
Southwest-Lower Mississippi	222	48,459,572	83	18,293,372	139	30,256,200
Colorado River	22	12,065,627	6	480,783	16	11,584,844
Western Gulf	93	19,499,244	36	10,036,637	57	9,462,607
Pacific Northwest	84	38,917,315	31	18,304,096	53	20,611,219
California	101	18,383,273	16	5,408,195	85	12,975,078
Great Basin	17	7,392,841	5	6,253,901	12	1,138,940
Alaska	3	417,040	2	87,920	1	329,120
Hawaii	18	8,470,229			18	8,470,229
Puerto Rico	4	1,291,067	3	1,103,361	1	97,706
Total	2,054	598,940,110	710	215,882,155	1,344	383,057,955

[1] Interceptors, outfalls, additions, enlargements, and alterations to plants, etc.

TABLE 8.—*Contract awards—sewage treatment works construction—1963—by States*

State	Total		New plants		Other [1]	
	Number	Dollars	Number	Dollars	Number	Dollars
Alabama	53	13,143,418	19	4,584,429	34	8,558,989
Alaska	3	415,040	2	85,920	1	329,120
Arizona	9	10,128,674	2	26,150	7	10,102,524
Arkansas	37	7,810,493	13	4,029,047	24	3,781,446
California	109	19,115,909	18	5,512,140	91	13,603,769
Colorado	12	3,612,574	5	1,313,767	7	2,298,807
Connecticut	16	4,172,028	2	465,822	14	3,706,206
Delaware	8	1,028,864	3	546,075	5	482,789
District of Columbia	13	11,580,240			13	11,580,240
Florida	63	12,196,725	14	3,017,821	49	9,178,904
Georgia	35	12,091,020	9	3,133,388	26	8,957,632
Hawaii	18	8,470,229			18	8,470,229
Idaho	12	867,461	5	438,867	7	428,594
Illinois	118	49,976,667	38	4,322,560	80	45,654,107
Indiana	46	10,787,720	22	5,375,282	24	5,412,438
Iowa	68	8,163,453	31	2,928,111	37	5,235,342
Kansas	51	5,997,001	19	1,151,157	32	4,845,844
Kentucky	58	12,728,577	27	5,466,939	31	7,261,638
Louisiana	71	25,096,777	22	7,560,042	49	17,536,735
Maine	15	3,046,962	4	979,293	11	2,067,669
Maryland	29	5,377,375	5	935,262	24	4,442,113
Massachusetts	43	18,472,090	10	4,148,155	33	14,323,935
Michigan	62	14,882,564	25	6,417,932	37	8,464,632
Minnesota	55	14,735,349	30	4,305,880	25	10,429,469
Mississippi	30	5,273,459	16	3,641,047	14	1,632,412
Missouri	59	18,045,338	26	8,187,520	33	9,857,818
Montana	8	631,311	5	140,770	3	490,541
Nebraska	42	2,492,035	20	1,227,157	22	1,268,878
Nevada	3	1,297,744			3	1,297,744
New Hampshire	16	5,928,640	6	3,093,972	10	2,834,668
New Jersey	57	18,461,787	23	5,504,740	34	12,957,047
New Mexico	19	3,293,860	5	328,806	14	2,965,054
New York	77	69,064,777	22	53,106,045	55	15,958,732
North Carolina	39	6,500,624	14	2,834,187	25	3,666,437
North Dakota	13	536,893	4	72,116	9	464,777
Ohio	59	20,195,617	26	4,996,757	33	15,198,860
Oklahoma	48	7,527,290	15	2,912,121	33	4,615,169
Oregon	33	8,341,588	13	4,649,952	20	3,691,636
Pennsylvania	122	31,263,773	45	13,813,826	77	17,449,947
Puerto Rico	4	1,201,067	3	1,103,361	1	97,706
Rhode Island	16	10,860,029	1	17,511	15	10,842,518
South Carolina	29	6,098,152	13	2,760,564	16	3,337,588
South Dakota	11	658,929	3	79,292	8	579,637
Tennessee	46	8,272,436	20	2,394,179	26	5,878,257
Texas	85	18,022,343	42	11,326,545	43	6,695,798
Utah	10	6,686,919	3	6,129,956	7	556,963
Vermont	15	4,978,619	5	1,992,501	10	2,986,118
Virginia	47	9,480,726	11	3,569,028	36	5,911,698
Washington	37	29,559,214	12	13,159,866	25	16,399,348
West Virginia	32	6,179,430	9	777,151	23	5,402,279
Wisconsin	87	23,859,445	22	1,150,566	65	22,708,879
Wyoming	6	330,855	1	172,580	5	158,275
Total	2,054	598,940,110	710	215,882,155	1,344	383,057,955

[1] Interceptors, outfalls, additions, enlargements, and alterations to plants, etc.

B. COLLECTING SEWER CONSTRUCTION

Collecting sewer construction for 1963 totaled $404.7 million. Tables 9, 10, and 11 analyze the contract award data which was specified as purely collecting sewers (i.e., $353.3 million), and do not reflect any portion of the combination projects. The tabulation of the collecting sewer contract awards by States appears in table 3 of section I.

The collecting sewer classification does *not* include storm sewers.

TABLE 9.—*Contract awards—collecting sewer construction—1963—by population size groups*

Population size group	Collecting sewers			
	Number	Dollars	Cumulative percent [1]	
			Number	Dollars
Unknown population size	101	5,658,298		
Under 500	106	11,482,705	3.4	3.3
500–1,000	106	12,209,215	6.8	6.8
1,000–2,500	210	25,292,123	13.5	14.1
2,500–5,000	194	22,989,778	19.7	20.7
5,000–10,000	284	27,571,909	28.7	28.6
10,000–25,000	467	55,104,259	43.5	44.5
25,000–50,000	295	30,734,645	52.9	53.3
50,000–100,000	319	34,817,114	63.0	63.3
100,000–250,000	360	40,145,163	74.4	74.8
250,000 and over	811	87,262,876	100.0	100.0
Total	3,253	353,268,175		

[1] Cumulative percentages are based on the known population groups.

TABLE 10.—*Contract awards—collecting sewer construction—1963—by contract size groups*

Contract size group (dollars)	Collecting sewers			
	Number	Dollars	Cumulative percent	
			Number	Dollars
Under-10,000	504	2,673,136	15.5	0.8
10,000–25,000	736	12,170,217	38.1	4.2
25,000–50,000	666	23,834,405	58.6	10.9
50,000–100,000	460	33,407,312	73.8	20.9
100,000–250,000	519	81,482,835	89.8	44.0
250,000–500,000	187	65,396,006	95.5	62.5
500,000–1,000,000	118	83,110,095	99.1	86.0
1,000,000–5,000,000	30	49,194,079	100.0	99.9
Over 5,000,000			100.0	100.0
Total	3,253	353,268,175		

TABLE 11.—*Contract awards—collecting sewer construction—1963—by drainage basin*

Drainage basin	Collecting sewers		Drainage basin	Collecting sewers	
	Number	Dollars		Number	Dollars
Northeast	303	45,723,238	Colorado River	45	4,092,236
North Atlantic	476	73,605,291	Western Gulf	126	10,665,847
Southeast	201	30,361,099	Pacific Northwest	109	10,154,380
Tennessee River	26	3,687,128	California	431	23,730,589
Ohio River	301	40,822,554	Great Basin	26	1,722,260
Lake Erie	78	8,010,230	Alaska	6	1,551,842
Upper Mississippi	319	25,879,803	Hawaii	8	1,904,110
Western Great Lakes	283	28,917,883	Puerto Rico	12	1,631,972
Missouri River	292	16,317,871			
Southwest-Lower Mississippi	211	24,489,842	Total	3,253	353,268,175

C. WATER WORKS CONSTRUCTION

The water works data are broken down into four categories, namely, SOURCE, TREATMENT, DISTRIBUTION, and MISCELLANEOUS. The "SOURCE" group includes contracts awarded for wells, surface source development, and transmission lines. The "TREATMENT" area includes contracts for plants and auxiliary facilities. The "DISTRIBUTION" category includes contracts for ground storage, elevated tanks, and distribution systems. The "MISCELLANEOUS" classification includes contracts for pumping facilities and for water systems in general. When it is not possible to code a contract that known to pertain to water into source, treatment, or distribution then it is included in the totals for miscellaneous.

Contract awards for water works construction in 1963, including an apportioned amount from the combination contracts, totaled $589.8 million. The tables following refer only to contracts that pertain exclusively to water works (i.e., $565.2 million).

TABLE 12.—*Contract awards—water works construction—1963—by population size groups*

Population size group	Total		Source		Treatment		Distribution		Miscellaneous[1]	
	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars
Unknown population size	297	15, 841, 072	79	1, 860, 560	15	1, 328, 963	124	7, 241, 576	79	5, 409, 973
Under 500	441	25, 887, 993	82	2, 215, 839	34	2, 879, 264	215	12, 093, 418	110	11, 699, 472
500–1,000	360	19, 630, 458	77	2, 109, 340	29	1, 809, 972	172	9, 376, 300	82	6, 334, 846
1,000–2,500	546	38, 705, 766	113	4, 394, 634	50	4, 843, 303	278	18, 145, 383	105	11, 323, 446
2,500–5,000	507	44, 369, 286	104	7, 166, 032	36	6, 529, 857	274	21, 147, 355	93	9, 526, 042
5,000–10,000	517	48, 426, 251	99	7, 596, 053	42	9, 278, 071	299	21, 527, 921	77	10, 024, 206
10,000–25,000	713	92, 957, 359	135	25, 594, 777	38	9, 266, 271	437	37, 697, 483	103	20, 398, 828
25,000–50,000	420	49, 098, 208	83	11, 168, 384	24	8, 425, 538	268	23, 227, 285	45	6, 274, 001
50,000–100,000	269	56, 489, 205	58	24, 599, 935	13	14, 338, 645	173	14, 749, 755	25	2, 800, 870
100,000–250,000	246	36, 688, 043	61	21, 388, 477	7	621, 991	151	10, 981, 569	27	3, 696, 006
250,00 and over	681	134, 066, 583	113	55, 998, 039	27	27, 168, 768	482	39, 972, 535	59	10, 927, 241
Total	4, 997	565, 161, 224	1, 004	164, 092, 070	315	80, 493, 643	2, 873	216, 160, 580	805	98, 414, 931

[1] This includes separate contracts for pumping facilities and other water works contracts that cover more than one of the above divisions.

TABLE 12A—*Contract awards—water works construction—1963—by population size groups—cumulative percentages* [1]

Population size group	Total cumulative (percent)		Source cumulative (percent)		Treatment cumulative (percent)		Distribution cumulative (percent)		Miscellaneous[2] cumulative (percent)	
	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars
Unknown population size										
Under 500	9.4	5.3	8.9	1.4	11.3	3.4	7.8	5.8	15.2	12.6
500–1,000	17.1	8.9	17.2	2.7	21.0	5.5	14.1	10.3	26.5	19.4
1,000–2,500	28.7	15.9	29.4	5.4	37.7	11.2	24.2	19.0	41.0	31.6
2,500–5,000	39.5	24.0	40.6	9.8	49.7	18.9	34.2	29.1	53.5	41.8
5,000–10,000	50.5	32.8	51.3	14.5	63.7	29.8	45.1	39.4	64.4	52.6
10,000–25,000	65.7	49.7	65.9	30.3	76.4	40.7	61.0	57.4	78.6	74.5
25,000–50,000	74.6	58.6	74.9	37.2	84.4	50.6	70.7	68.5	84.8	81.2
50,000–100,000	80.3	68.9	81.2	52.4	88.7	67.4	77.0	75.6	88.2	84.2
100,000–250,000	85.5	75.6	87.8	65.6	91.0	68.1	82.5	80.9	91.9	88.2
250,000 and over	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

[1] Cumulative percentages are based on the known population groups.

[2] This includes separate contracts for pumping facilities and other water works contracts that cover more than one of the above divisions.

TABLE 13.—*Contract awards—water works construction—1963—by contract size groups*

Contract size group (dollars)	Total		Source		Treatment		Distribution		Miscellaneous [1]	
	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars
Under 10,000	760	3,998,179	211	1,152,663	18	80,443	443	2,260,801	91	504,272
10,000–25,000	1,221	20,338,329	278	4,507,144	44	730,876	733	12,313,676	166	2,786,633
25,000–50,000	1,021	36,474,910	166	5,850,788	48	1,725,377	646	23,170,434	161	5,728,311
50,000–100,000	817	58,008,181	110	7,693,696	55	4,045,831	506	35,925,661	146	10,342,993
100,000–250,000	703	109,466,794	111	17,391,098	76	11,727,784	370	57,860,460	146	22,487,452
250,000–500,000	286	99,242,456	62	22,258,240	47	16,493,206	119	40,879,438	58	19,611,572
500,000–1,000,000	122	83,128,409	33	23,379,792	16	11,526,648	47	29,964,515	26	18,257,454
1,000,000–5,000,000	60	111,064,819	29	56,560,347	11	22,022,633	9	13,785,595	11	18,696,244
Over 5,000,000	7	43,439,147	4	25,298,302	3	18,140,845				
Total	4,997	565,161,224	1,004	164,092,070	315	86,493,643	2,873	216,160,580	805	98,414,931

[1] This includes separate contracts for pumping facilities and other water works contracts that cover more than one of the above divisions.

TABLE 13A.—*Contract awards—water works construction—1963—by contract size groups—cumulative percentages*

Contract size group (dollars)	Total cumulative (percent)		Source cumulative (percent)		Treatment cumulative (percent)		Distribution cumulative (percent)		Miscellaneous [1] cumulative (percent)	
	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars
Under 10,000	15.2	0.7	21.0	0.7	4.8	0.1	15.4	1.0	11.3	0.5
10,000–25,000	39.6	4.3	48.7	3.4	18.8	0.9	40.9	6.7	31.9	3.3
25,000–50,000	60.0	10.8	65.2	7.0	34.0	2.9	63.4	17.4	51.9	9.1
50,000–100,000	76.3	21.1	76.2	11.7	51.5	7.6	81.0	34.0	70.0	19.6
100,000–250,000	90.4	40.5	87.3	22.3	75.6	21.2	93.9	60.8	88.1	42.4
250,000–500,000	96.1	58.1	93.5	35.9	90.5	40.3	98.0	79.7	95.3	62.3
500,000–1,000,000	98.5	72.8	96.8	50.1	95.6	53.6	99.6	93.6	98.5	80.9
1,000,000–5,000,000	99.7	92.5	99.7	84.6	99.1	79.1	99.9	100.0	99.9	99.9
Over 5,000,000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

[1] This includes separate contracts for pumping facilities and other water works contracts that cover more than one of the above divisions.

TABLE 14.—*Contract awards—water works construction—1963—by drainage basins*

Drainage basin	Total		Source		Treatment		Distribution		Miscellaneous [1]	
	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars
Northeast	430	47,227,617	73	12,752,104	23	9,209,415	272	19,041,484	62	6,224,614
North Atlantic	491	47,672,056	88	13,577,233	22	5,765,032	320	22,583,928	61	5,745,863
Southeast	546	63,300,664	128	14,580,343	37	10,377,646	278	21,407,098	103	16,935,577
Tennessee River	77	11,855,976	7	435,099	13	2,098,462	41	4,942,840	16	4,379,575
Ohio River	542	56,840,752	74	7,274,589	60	11,616,645	323	26,767,622	85	11,181,896
Lake Erie	110	11,975,297	17	4,354,888	12	3,234,269	75	4,214,341	6	171,799
Upper Mississippi	450	45,872,805	103	9,459,476	43	15,957,061	231	14,536,973	73	5,919,295
Western Great Lakes	350	44,749,359	64	9,146,209	21	5,587,243	234	25,261,431	31	4,754,476
Missouri River	386	27,813,335	91	7,296,546	24	3,696,950	200	11,212,580	71	5,607,259
Southwest-Lower Mississippi	488	44,887,164	102	7,748,527	35	4,467,473	267	19,852,182	84	12,818,982
Colorado River	66	26,943,550	23	8,391,644	3	8,729,208	24	7,084,275	16	2,738,423
Western Gulf	378	34,964,906	69	13,045,473	12	1,009,912	244	12,392,676	53	8,516,845
Pacific Northwest	158	10,928,697	15	1,745,544	2	259,027	106	7,194,808	35	1,729,318
California	416	78,334,208	93	50,938,503	6	4,463,184	231	16,005,890	86	6,926,631
Great Basin	37	3,366,249	7	572,858	1	9,256	14	1,837,978	15	946,157
Alaska	7	3,121,669			1	12,860	4	718,036	2	2,390,773
Hawaii	5	1,569,509					1	365,843	4	1,203,666
Puerto Rico	50	3,737,411	50	2,773,034			8	740,595	2	223,782
Total	4,997	565,161,224	1,004	164,092,070	315	86,493,643	2,873	216,160,580	805	98,414,931

[1] This includes separate contracts for pumping facilities and other water works contracts that cover more than one of the above divisions.

TABLE 15.—*Contract awards—water works construction—1963—by States*

State	Total		Source		Treatment		Distribution		Miscellaneous [1]	
	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars
Alabama	77	9, 193, 965	19	2, 409, 494	4	977, 621	36	2, 227, 540	18	3, 579, 310
Alaska	7	3, 121, 669			1	12, 860	4	718, 036	2	2, 390, 773
Arizona	30	13, 087, 817	12	3, 031, 554	2	8, 021, 826	13	1, 931, 607	3	102, 830
Arkansas	101	9, 929, 633	20	1, 448, 381	9	1, 513, 083	49	3, 748, 508	23	3, 219, 661
California	433	79, 552, 191	95	50, 993, 897	6	4, 463, 184	238	16, 778, 497	94	7, 316, 613
Colorado	77	18, 008, 088	24	6, 149, 404	3	1, 070, 936	37	9, 081, 094	13	1, 706, 654
Connecticut	26	3, 733, 697	4	1, 700, 590	2	878, 900	16	894, 737	4	259, 470
Delaware	10	443, 142	3	108, 462	2	12, 410	1	4, 250	4	318, 020
District of Columbia	9	1, 146, 213	2	589, 715	1	14, 300	5	369, 198	1	173, 000
Florida	124	16, 255, 292	32	2, 446, 555	12	3, 935, 712	56	5, 948, 998	24	3, 924, 027
Georgia	104	12, 429, 833	18	2, 305, 926	8	1, 588, 501	57	3, 637, 586	21	4, 897, 820
Hawaii	5	1, 569, 509					1	365, 843	4	1, 203, 666
Idaho	4	151, 896					2	17, 991	2	133, 905
Illinois	249	26, 640, 970	44	3, 271, 452	19	10, 802, 364	135	7, 288, 230	51	5, 278, 924
Indiana	133	8, 244, 062	21	800, 692	16	1, 428, 928	71	3, 967, 181	25	2, 047, 261
Iowa	82	5, 238, 562	22	586, 584	13	2, 390, 718	38	1, 869, 829	9	391, 431
Kansas	94	7, 239, 644	12	1, 128, 079	9	811, 743	53	2, 896, 882	20	2, 402, 940
Kentucky	106	11, 054, 879	13	1, 859, 200	15	1, 904, 286	64	4, 872, 891	14	2, 418, 502
Louisiana	94	8, 766, 346	27	2, 031, 854	7	618, 374	51	5, 123, 929	9	992, 189
Maine	11	455, 771	1	19, 049			8	392, 740	2	43, 982
Maryland	80	10, 703, 416	15	7, 292, 989	1	13, 900	56	2, 928, 105	8	468, 422
Massachusetts	157	9, 777, 966	28	2, 575, 839	3	492, 459	102	5, 703, 216	24	1, 006, 452
Michigan	208	34, 288, 543	42	8, 261, 299	13	3, 021, 301	137	18, 946, 572	16	4, 059, 371
Minnesota	116	12, 852, 342	27	2, 627, 644	16	3, 077, 594	63	6, 868, 505	10	278, 599
Mississippi	92	6, 242, 279	31	1, 409, 089	3	151, 513	43	2, 521, 338	15	2, 160, 339
Missouri	115	12, 949, 348	29	4, 942, 130	12	3, 556, 530	45	1, 838, 748	29	2, 612, 140
Montana	13	723, 065			1	42, 970	9	247, 440	3	432, 655
Nebraska	88	3, 326, 866	19	1, 054, 649	3	102, 752	54	1, 613, 819	12	555, 646
Nevada	14	2, 056, 999	8	1, 004, 695	1	9, 256	3	554, 383	2	488, 665
New Hampshire	12	594, 856	4	76, 415			5	253, 536	3	264, 905
New Jersey	73	4, 078, 187	13	300, 330	3	239, 600	46	2, 894, 583	11	843, 674
New Mexico	37	6, 524, 037	11	3, 159, 172	1	16, 995	9	1, 378, 725	16	1, 969, 145
New York	391	46, 198, 894	63	9, 873, 938	26	10, 390, 566	262	19, 299, 533	40	6, 634, 857
North Carolina	122	12, 545, 289	26	2, 468, 795	9	1, 909, 973	67	5, 727, 945	20	2, 438, 576
North Dakota	27	1, 072, 024	5	58, 281	3	195, 837	12	341, 524	7	476, 382
Ohio	209	23, 454, 904	37	5, 526, 639	17	7, 558, 489	135	7, 869, 243	20	20, 560, 533
Oklahoma	142	13, 397, 244	21	2, 317, 734	8	1, 564, 021	92	6, 554, 638	21	2, 960, 851
Oregon	37	2, 272, 395	7	1, 238, 083			25	828, 396	5	205, 916
Pennsylvania	210	24, 466, 226	40	3, 831, 718	11	3, 455, 897	128	14, 144, 067	31	3, 034, 544
Puerto Rico	58	3, 273, 306	49	2, 733, 716			7	315, 808	2	223, 782
Rhode Island	15	1, 264, 515			1	43, 700	12	1, 046, 075	2	174, 740
South Carolina	69	10, 160, 887	13	4, 204, 158	6	2, 265, 115	38	2, 375, 124	12	1, 316, 490
South Dakota	38	1, 514, 067	16	600, 295	1	135, 377	18	751, 539	3	26, 856
Tennessee	114	18, 965, 429	5	1, 078, 995	18	3, 412, 233	69	8, 700, 831	22	5, 773, 370
Texas	375	33, 332, 234	65	11, 255, 639	11	992, 917	250	12, 521, 751	49	8, 561, 927
Utah	22	2, 955, 599	3	121, 578			9	1, 330, 646	10	1, 503, 375
Vermont	5	375, 238	1	14, 750			2	286, 184	2	74, 304
Virginia	50	5, 335, 002	7	1, 819, 822	3	423, 470	32	2, 137, 678	8	954, 032
Washington	116	8, 240, 282	8	807, 461	2	259, 027	80	6, 385, 738	26	1, 088, 056
West Virginia	46	4, 687, 706	5	715, 759	6	707, 067	24	1, 930, 683	11	1, 244, 197
Wisconsin	159	8, 999, 022	33	939, 011	6	1, 901, 429	102	5, 634, 140	18	534, 442
Wyoming	11	2, 269, 678	4	1, 200, 559	1	17, 909	2	304, 500	4	746, 710
Total	4, 997	565, 161, 224	1, 004	164, 092, 070	315	86, 493, 643	2, 873	216, 160, 580	805	98, 414, 931

[1] This includes separate contracts for pumping facilities and other water works contracts that cover more than one of the above divisions.

D. COMBINATION CONSTRUCTION

Combination contracts are made up of projects that cover more than one of the three major categories: (1) Sewage treatment; (2) collecting sewers; and (3) water works. The combination contract awards by States appear in table 3 of section 1.

TABLE 16.—*Contract awards—combination construction—1963—by population size groups*

Population size group	Combinations [1]			
	Number	Dollars	Cumulative percent [2]	
			Number	Dollars
Unknown population size	46	3,152,356		
Under 500	48	4,549,271	4.1	3.0
500-1,000	76	10,348,584	10.5	9.8
1,000-2,500	104	15,554,863	19.3	20.0
2,500-5,000	87	9,634,484	26.7	26.3
5,000-10,000	102	13,316,422	35.3	35.0
10,000-25,000	146	20,091,859	47.7	48.1
25,000-50,000	98	22,566,947	55.8	62.8
50,000-100,000	57	12,031,375	60.6	70.7
100,000-250,000	69	9,034,403	66.4	76.6
250,000 and over	397	35,929,979	100.0	100.0
Total	1228	156,204,543		

[1] This includes contracts whose descriptive information covers more than a single category of construction (e.g., sewage treatment, sewers, or water works).

[2] Cumulative percentages are based on the known population groups.

TABLE 17.—*Contract awards—combination construction—1963—by contract size groups*

Contract size group (dollars)	Combinations [1]			
	Number	Dollars	Cumulative percent	
			Number	Dollars
Under 10,000	139	820,035	11.2	0.5
10,000-25,000	324	5,424,192	37.7	4.0
25,000-50,000	242	8,944,306	57.4	9.7
50,000-100,000	178	12,375,200	71.9	17.6
100,000-250,000	213	32,845,244	89.2	38.6
250,000-500,000	74	24,047,638	95.2	54.0
500,000-1,000,000	38	25,761,295	98.3	70.5
1,000,000-5,000,000	19	38,444,237	99.8	95.1
Over 5,000,000	1	7,542,306	100.0	100.0
Total	1,228	156,204,543		

[1] This includes contracts whose descriptive information covers more than a single category of construction (e.g., sewage treatment, sewers, or water works).

TABLE 18.—*Contract awards—combination construction—1963—by drainage basin*

Drainage basin	Combinations [1]		Drainage basin	Combinations [1]	
	Number	Dollars		Number	Dollars
Northeast	38	7,933,604	Colorado River	10	560,498
North Atlantic	411	33,920,550	Western Gulf	89	10,204,196
Southeast	85	20,068,703	Pacific Northwest	12	941,642
Tennessee River	9	1,323,134	California	40	8,933,641
Ohio River	59	15,414,017	Great Basin	4	382,706
Lake Erie	20	3,415,623	Alaska	7	1,552,680
Upper Mississippi	160	16,529,562	Hawaii	1	559,800
Western Great Lakes	123	8,445,915	Puerto Rico	7	2,429,824
Missouri River	58	5,375,270			
Southwest-Lower Mississippi	95	18,213,178	Total	1,228	156,204,543

[1] This includes contracts whose descriptive information covers more than one single category of construction (e.g., sewage treatment, sewers, or water works).

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